

Claims

1. 1. Gas turbine (1) whose combustion chamber (4) has a
combustion chamber wall (23) formed from coolant tubes (24),
5 characterized in that
- each coolant tube (24) is composed of a plurality of tube
segments (26),
- consecutive tube segments (26) of a coolant tube (24) are
interconnected via an assigned adapter piece (34) and
10 - the adapter pieces (26) are implemented in such a way that
the tube segments (26) can be connected by means of a plug
and socket connection.
2. Gas turbine (1) according to Claim 1 wherein the coolant
15 tubes (24) are made of cast material.
3. Gas turbine (1) according to Claim 1 or 2, whose coolant
tubes (24) are of trapezoidal cross-section.
- 20 4. Gas turbine according to Claim 3, wherein the cross-section
of the adapter pieces (34) changes to a circular cross-
section as it approaches the relevant joint.
5. Gas turbine (1) according to one of Claims 1 to 4, wherein
25 the coolant tubes (24) are mounted on a plurality of common
support rings (36).
6. Gas turbine (1) according to Claim 5, wherein the coolant
tubes (24) are mounted on the support rings (36) via
30 coolable screws (38).

7. Gas turbine (1) according to Claim 5 or 6, wherein the support rings (36) are interconnected by a plurality of longitudinal fins to form a supporting structure.
- 5 8. Gas turbine (1) according to one of Claims 1 to 7, wherein each coolant tube (24) is connected on the output side to a collecting chamber (46) via which the outflowing coolant (K) can be fed to a burner (10).
- 10 9. Gas turbine (1) according to Claim 8, wherein each burner (10) is assigned a collecting chamber (46), each collecting chamber (46) being connected to the same number of coolant tubes (24).